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	Application No.	Applicant(s)	
Notice of Allowability	10/553,327	MENS, WILHELMUS REINERIUS MARIA	
	Examiner	Art Unit	
	Dixomara Vargas	2859	
The MAILING DATE of this communication apple All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in t) or other appropriate commun IGHTS. This application is sul	his application. If not included ication will be mailed in due course. THIS	
1. \boxtimes This communication is responsive to <u>Amendment filed 07/</u>	<u>′05/07</u> .		
2. The allowed claim(s) is/are 1-5 and 8-15.			
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application cuments have been received i	Non this national stage application from the	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or d	MINER'S AMENDMENT or NOTICE OF leclaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
 (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 		PTO-948) attached	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	=	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	1.84(c)) should be written on the	drawings in the front (not the back) of 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Sum Paper No./M	 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sí 9. □ Other	8. ☑ Examiner's Statement of Reasons for Allowance 9. ☐ Other	

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-5 and 8-15 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
 - a. With respect to claim 1, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a magnetic resonance imaging system comprising a reconstruction unit arranged to iteratively adjust the phase correction on the basis of the distribution of phase values of the complex image in combination with the remaining limitations of the claim.
 - b. With respect to claim 9, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a magnetic resonance imaging system comprising a reconstruction unit arranged to compute a distribution of phase values of the complex image represented by a histogram and, control the phase correction on the basis of the distribution of phase of the complex image by adjusting the phase values of the complex image by adjusting polynomial coefficients of a polynomial phase correction so as to optimize the test function in combination with the remaining limitations of the claim.
 - c. With respect to claim 10, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a magnetic resonance imaging method comprising the step of iteratively adjusting the phase correction on the basis of distribution of phase values of the complex image to generate an iteratively

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adjusted phase correction that enhances peaks in the distribution of phase values relative to broader structures in combination with the remaining limitations of the claim.

- d. With respect to claim 11, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a digital processing unit including a processing unit programmed to iteratively adjust the phase correction on the basis of a test function of the distribution of phase values of the complex image that discriminates whether the distribution is predominant by peaks or by broader structures, the iterative adjustment being ended when the test function indicates that the distribution is dominated by peaks in combination with the remaining limitations of the claim.
- e. With respect to claim 14, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a magnetic resonance imaging system comprising a reconstruction unit is arranged to control the polynomial phase correction on the basis of the distribution of the phase values of the complex image by iteratively adjusting polynomial coefficients of the polynomial phase correction in combination with the remaining limitations of the claim.
- f. With respect to claims 2-5, 8, 12-13 and 15, the claims have been found allowable due to its dependency on claims 1, 10 and 11 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in the PTO 892 discloses reconstruction systems with phase correction.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252. The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dixomara Vargas Patent Examiner

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Diego Gutierrez
Supervisory Patent Examiner
Technology Center 2800

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